

FIG. 1

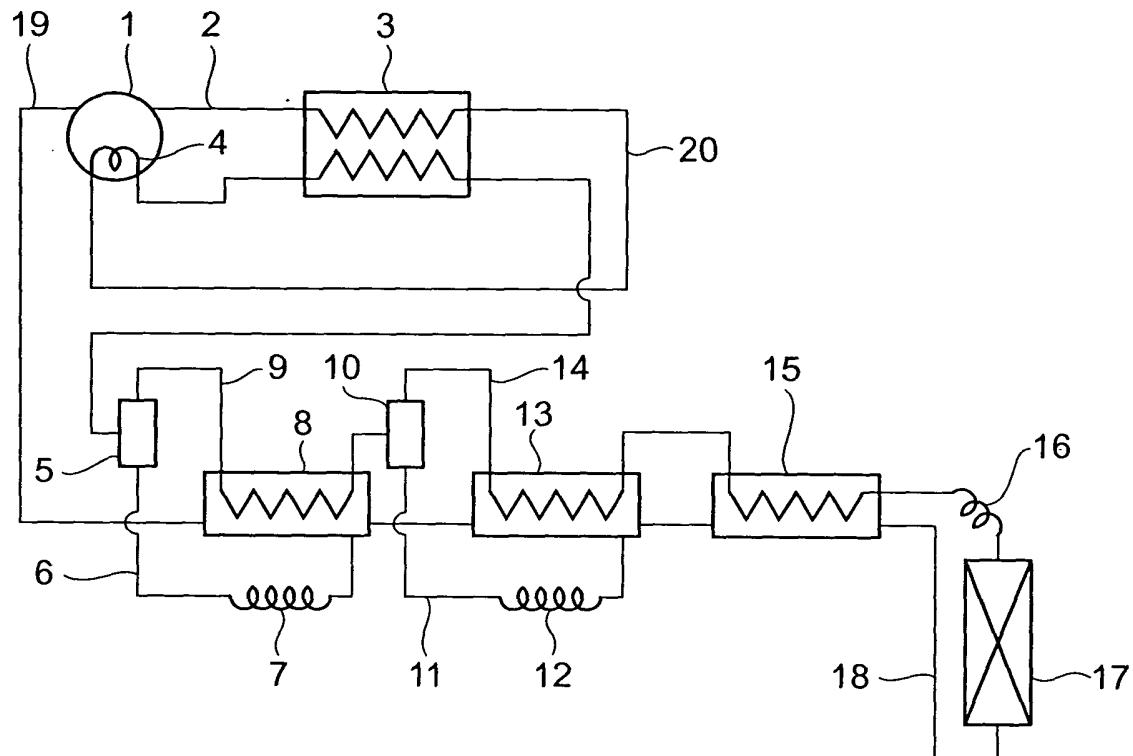


FIG. 2

EXAMINED SPECIFICATION	
REFRIGERANTS	R245fa: 37.4 wt% R125: 21.6 wt% R508A: 19.8 wt% R14: 21.2 wt% n-PENTANE: 5.8 wt%
2. PRESSURE PD	1,638 kPa
19. PRESSURE PS	200 kPa
1. COMP. UNDER CASE	67.9°C
2. PRESSURE DISCHARGE PIPE	86.3°C
19. SUCTION PIPE	14.3°C
8. INTERMEDIATE HX1	-5.7°C
13. INTERMEDIATE HX2	-34.4°C
15. INTERMEDIATE HX3	-55.2°C
17. INLET OF EVAPORATOR	-97.0°C
18. OUTLET OF EVAPORATOR	-88.4°C
AIR IN THE MIDDLE OF REFRIGERATOR	-91.5°C

NOTES:

THE NUMBERS ARE THE SAME AS THOSE ALLOCATED TO THE CONSTITUENTS SHOWN IN FIG. 1.

THE "INLET OF EVAPORATOR" REFERS TO NOT EXACTLY THE INLET OF THE EVAPORATOR 17 BUT A PORTION IMMEDIATELY AFTER THE CAPILLARY 16. THE NUMBER FOR "AIR IN THE MIDDLE OF REFRIGERATOR" IS OMITTED SINCE IT IS NOT SPECIFIED IN FIG. 1.

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Title: REFRIGERANT COMPOSITION AND REFRIGERATING
CIRCUIT USING THE SAME

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FIG. 3

REFRIGERANT COMPOSITION	AMOUNT USED
R245fa ($\text{CF}_3\text{CH}_2\text{CHF}_2$)	17.4 to 50 wt%
R125 (CHF_2CF_3)	12 to 25 wt%
R508A (R23/R116:39/61)	13.2 to 36.4 wt%
R14 (CF_4)	13.2 to 36.4 wt%
n-PENTANE	0.1 to 12 wt%